

Use the data in Table 9.1 to perform a complete SCAT analysis on the dip traverse across the Sequatchie anticline. Plot the azimuth-distance and the dip-distance diagrams. What are the *T* and *L* directions? What are the dip components in the *T* and *L* directions? Plot them on the dip-component diagrams.

Table 9.1.
Dip traverse across Sequatchie anticline

Distance from NW end of traverse (ft)	Dip, azimuth	T component (from 320/140)	L component (from 230/50)
256	8,308	8 NW	1 SW
1 384	46,315	45 NW	7 SW
1 640	34,316	34 NW	2 SW
1 660	50,320	50 NW	0
2 328	6,320	6 NW	0
3 143	22,316	22 NW	1 SW
3 261	56,318	56 NW	1 SW
4 096	75,330	75 NW	25 SW
4 253	Break		
4 253	83,315	83 NW	~45 SW
4 528	70,315	70 NW	13 SW
4 891	0,000	0	0
5 147	Break		
5 323	5,145	5 SE	1 SW
5 815	6,144	6 SE	1 SW
6 404	8,145	8 SE	1 SW
8 005	8,144	8 SE	1 SW
10 942	6,127	6 SE	1 NE
12 789	7,136	7 SE	1 NE
13 466	10,136	10 SE	1 NE
13 692	9,136	9 SE	1 NE